TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 12-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	12-06-17
Oven Dry Weight	:	11800 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	515	515	4.4	95.6	95-100
22.4	2459	2974	25.2	74.8	60-80
11.2	2379	5353	45.4	54.6	40-60
4.75	2251	7604	64.4	35.6	25-40
2.36	1821	9425	79.9	20.1	15-30
0.6	723	10148	86.0	14.0	8-22
0.075	1438	11586	98.2	1.8	0-5

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

Page 1/1
End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 12-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	12-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 14-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	12-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

AE ward No5

Page 1/1
End of Report

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar Layout in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-02
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	13-06-17
Oven Dry Weight	:	11100 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	365	365	3.3	96.7	95-100
22.4	2209	2574	23.2	76.8	60-80
11.2	2279	4853	43.7	56.3	40-60
4.75	2201	7054	63.5	36.5	25-40
2.36	1671	8725	78.6	21.4	15-30
0.6	723	9448	85.1	14.9	8-22
0.075	1438	10886	98.1	1.9	0-5

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-02
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-06-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.1	300.3
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	71.7	72.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.2	227.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.2	0.3
5	Aggregate impact value	(B/A)*100	23.9	24.1
6	Aggregate impact value (Mean of two tests)	Pecentage	24.0	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-12-01** **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-06-17
Sample ID No	:	2017-06-12-01-02
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-06-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.3%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.9%	
Combined Flakiness and Elongation Index for WMM	28.2%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-06-15-01** **Date: 17-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-17
Sample ID No	:	2017-06-15-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	15-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**66.3**	60 to 70
2	Softening Point, °C	**48.9**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**238**	Min. 220°C
	Fire point, °C	**243**	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-06-19-02** **Date: 21-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	19-06-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	410	410	8.20	91.80	90-100
4.75	2187	2597	51.94	48.06	35-51
2.36	1038	3635	72.70	27.30	24-39
1.18	525	4160	83.20	16.80	15-30
0.3	360	4520	90.40	9.60	9-19
0.075	269	4789	95.78	4.22	3-8
PAN	211	5000	100.00	0.00	0

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-06-19-02** **Date: 19-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)
Date of test	:	19-06-17

Result:

Flakiness Index	14.5%
Elongation Index	13.2%
Combined Flakiness & Elongation Index for SDBC	27.7%

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-06-19-02**	**Date: 19-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.	
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	19-06-17	
Sample ID No	:	2017-06-19-02-01	
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	19-06-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	360	360
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.2	73.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	283.9	286.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.9	0.6
5	Aggregate impct value	(B/A)*100	20.89	20.33
6	Aggregate impct value (Mean of two tests)		20.61	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 (Part III)

Lab ID	:	**CP-RW-2017-06-19-02** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Type of Mix	:	Coarse Aggregate for SDBC (Semi Dense Bituminous concrete)
Date of test	:	19-06-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2325	2270	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1534	1479	
4	Weight of Saturated Surface Dry aggregate	B	grams	2432	2348	
5	Weight of oven dried aggregate	C	grams	2424	2340	
6	Specific gravity	C/(B-A)		2.70	2.69	2.70
7	Apparent Specific gravity	C/(C-A)		2.72	2.72	2.72
8	Water absorption	100*(B-C) /C	Percent	0.33	0.34	0.34

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-06-19-02** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	19-06-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-06-19-02** **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	19-06-17
Sample ID No	:	2017-06-19-02-01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	19-06-17

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.82	8.2KN(min)
2	Marshal flow at 60°C, mm	3.2	3.25	2-4
3	Percent air Voids	4.21	4.15	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.9	14.44	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.28	2.32	–

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-06-26-01**	**Date: 27-06-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Basavalingappanagar in ward no.05 Bayatarayanapura Sub Division.	
Agency	:	K.NARASIMHA RAJU, #175, 5th cross, Bhadrappa Layout, Near G.R.Kalyanamantapa, Bangalore-94.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/218/2015-16	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	26-06-17	
Sample ID No	:	2017-06-26-01-01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	26-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	474	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.20	4.60
4	Average percentage	%	4.90	

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2017-06-26-01** **Date: 27-06-17**

Sample ID No : **2017-06-26-01-01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 474

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	40	40	8.4	91.6	90-100
4.75	194	234	49.4	50.6	35-51
2.36	106.5	340.5	71.8	28.2	24-39
1.18	53.5	394	83.1	16.9	15-30
0.3	18.5	412.5	87.0	13.0	9-19
0.075	31.5	444	93.7	6.3	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	26	26	5.5	94.5	90-100
4.75	225	251	52.6	47.4	35-51
2.36	82	333	69.8	30.2	24-39
1.18	46	379	79.5	20.5	15-30
0.3	54	433	90.8	9.2	9-19
0.075	22	455	95.4	4.6	3-8

Note:-

The results pertain to the samples received and tested.
All Information Furnished by the customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report